

PEIVE, A.V. [Peyve, A.V.]; STRAHOV, N.M. [Strakhov, N.M.]; IANSIN, A.L.
(Yanshin, A.L.)

Some very important problems in the field of theoretical geology.
Analele geol geogr 16 no.2:26-34 Ap-Je 62.

KONSTANTINOV, Mikhail Mikhaylovich(deceased); STRAKHOV, N.M.,
akademik, otv.red.; STRIGIN, V.M., red. Izd-va;
NOVICHKOVA, N.D., tekhn. red.

[Origin of stratified lead and zinc deposits] Proiskosh-
denie stratifitsirovannykh mestorozhdenii svintsa i tsinka.
Moskva, Izd-vo Akad. nauk SSSR, 1963. 180 p.

(Lead ores) (Zinc ores)

(MIRA 16:5)

H.M. SHANOV (USSR)

"Stages of evolution of the atmosphere, hydrosphere and sedimentary rocks -
Permian in the history of the Earth."

Report presented at the Conference on Chemistry of the Earth's Crust,
Moscow, 14-17 Mar 63.

STRAKHOV, Nikolay Mikhaylovich; VLASCOVA, L.V., red. izd-va; GUKOVA,
O.A., tekhn. red.

[Types of lithogenesis and their evolution in the history
of the earth] Tipy litogeneza i ikh evoliutsiya v istorii
zemli. Moscow, Gosgeoltekhnizdat, 1963. 534 p.
(EINA 17:1)

(Petrology)

STRAKHOV, N.M.

Some new characteristics of the diagenesis of Black Sea sediments. Lit. i pol. iskop. no.1:7-27 '63. (MIRA 17:3)

1. Geologicheskiy institut AN SSSR.

STRAKHOV, N.M.

Some problems in the study of the Dzhezkazgan deposit. Lit.
i pol. iskop. no.3:150-151 '63. (MIRA 17:1)

1. Geologicheskiy institut AN SSSR, Moskva.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420014-5

STRAHOV, N.M. [Strakhov, N.M.]

Problem of the importance of volcanic processes in formation of
sedimentary rocks. Analele geol geogr 17 no.4:34-49 O-D '63.

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CIA-RDP86-00513R001653420014-5"

MAKHLAYEV, V.G.; STRAKHOV, N.M., akademik, otv. red.

[Conditions governing sedimentation in the Upper Famennian basin of the Russian Platform] Usloviia osadkono-
nakopleniya v verkhnefamenskom basseine Russkoj platformy.
Moskva, Nauka, 1964. 227 p. (MIRA 17:12)

STRAKHOV, N.M.

More on the so-called volcanic hypothesis of basaltic formation.
Lit. i pol. iskop. no.3:170-172 My-Je '64. (MIRA 17:11)

1. Geologicheskiy institut AN SSSR.

STRAKHOV, N.M.

The so-called lithological-formational method. Lit. i pol. iskop.
no.6:143-150 N.D '64. (MIRA 18:3)

1. Geologicheskiy institut AN SSSR, Moskva.

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RATEYEV, M.A.; STRAKHOV, N.M., akademik, otv. red.; PEYVE, A.V.,
glavnnyy red.; KIZNETSOVA, K.I., red.; MANNER, V.V., red.;
TIMOFEEV, P.P., red.

(Characteristics of the distribution and genesis of clay
minerals in recent and old sea basins.) Zakonomernosti
rastreshcheniya i genezis glinistykh mineralov v suvremennykh
i starykh morskikh basseynakh. Moskva, Nauka, 1981. 287 s.
(Akademicheskie izdatelstva. Geologicheskii institut. Trudy, no. 121).
(MIKA 18.9)

I. Chlen Korrespondent AN SSSR (for Peyve).

YANOV, E.N.; STRAKHOV, N.M.; KRASHENNIKOV, G.F.; ARUSTAMOV, A.A.; GEYSLER,
A.N.; GRAMBERG, I.S.; LIBROWICH, V.L.; MIKHAYLOV, B.M.; NEKRASOVA,
O.I.; PISARCHIK, Ya.K.; POLOVINNINA, Yu.I.; TATARSKIY, V.B.;
SHUMENKO, S.I.

Reviews and discussions. Lit. i pol. iskop. no. 6185-89 and 91-119
(MIRA 18:12)
N-D '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut,
Leningrad. (for Yanov). 2. Geologicheskiy institut AN SSSR,
Moskva. Submitted July 12, 1965 (for Strakhov). 3. Moskovskiy
gosudarstvennyy universitet (for Krashennikov). 4. Kazakhskiy
nauchno-issledovatel'skiy institut mineral'nogo syr'ya, S.
Alma-Ata (for Arustamov).

STRAKHOV, N.M.; LANGE, O.K.; YABLOKOV, V.S.; SARYCHEVA, T.G.;
CHICHINNIKOV, A.M.; SHCHEGOLEV, D.I.; KRASHENINNIKOV, G.P.;
MENYAYLENKO, P.A.; KALEDA, G.A.; AMFRIYEV, A.A., student

Mikhail Sergeevich Shvetsov, 1985- . Izv. vys. ucheb. zav.;
geol. i razv. 8 no.11:7-13 N '65. (MIFI 19;12)

1. Moskovskiy geologorazvedochnyy institut (for Amfriyev).

STRAKHOV, Nikolay Petrovich [deceased]; KUVSHINSKIY, M.N., red.;
LYUDKOVSKAYA, N.I., tekhn.red.

[Textbook of inorganic chemistry] Uchebnik neorganicheskoi
khimii. Izd.2., ispr. i dop. Moskva, Gos.izd-vo med.lit-ry.
Medgiz, 1960. 402 p. (MIRA 13:10)
(Chemistry, Inorganic)

AUTHOR: Strakhov, N.S.

94-1-12/24

TITLE: A Combined Method of Reinforcing Cutting Tools (Kombinirovanny metod uprochneniya rezushchego instrumenta)

PERIODICAL: Promyshlennaya Energetika, 1958, No.1,
pp. 25 - 26 (USSR)

ABSTRACT: This brief description of methods of strengthening cutting tools by electric spark treatment, electro-polishing and chromium-plating, received a fifth premium in the All-Union competition on power economy. It is claimed that tool life is increased by a factor of 1.5 - 2.5. There are two main methods; a combination of electro-polishing and chromium-plating is used for tools that operate on non-ferrous metals. The method of reinforcing with a hard alloy, electro-polishing and chromium plating is used for some steel-cutting tools. In both cases, the final treatment consists of removing hydrogen-embrittlement by heat treatment at 200°C for two hours. The various processes are described in detail and the compositions of the electrolyte baths are given, also the current densities during chromium-plating.

AVAILABLE: Library of Congress
Card 1/1

STRAKHOFF, N.S.

Excerpta Medica 1/5 sec 17 May 55 Pub. Health, Social Medicine & etc.

2001. STRAKHOFF N.S. Organization of anti-tuberculous aid to
villagers in the Stanislav region (Ukrain-SSR) (Russian
text). PROBL. TUBERK. 1954, 2 (7-12)

Till 1939 antituberculosis care in this region was not organized. Since 1947 the net-
work of independent county dispensaries (with nursing accommodation for 15-25
patients each) and of specialized departments of county hospitals is growing. These
institutions provide local antituberculosis care by means of district physicians,
who register sick persons and carry out hygienic and epidemiological precautions.
Treatment includes streptomycin, PAS and Soviet antibiotics like tibon and phthiva-
zid. Special emphasis is laid on colapsotherapy and also on health-propaganda.
The staff of health-workers assist especially in vaccination of newborns, intro-
duced also in collective-farm obstetric clinics. 170 surgical operations in 1953
and 80 in the first 3 months of 1954 were carried out in this region on tuberculous
patients. Since 1948 the number of new cases of tb decreased by 30%.

Holub - Prague (XVII, 15)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420014-5

STRAKHOV, N.S. (Stanislav)

Organizing measures for controlling tuberculosis in feldsher stations. Fel'd. i akush. 21 no.8:25-31 Ag '56. (MLR 9:10)
(STANISLAV PROVINCE--TUBERCULOSIS)

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CIA-RDP86-00513R001653420014-5

Journal of Institute of Mathematics, Statistics and Actuarial Science, Vol. 1, No. 1, 1995, pp. 1-12, ISSN 0973-9890.
Journal of Institute of Mathematics, Statistics and Actuarial Science, Vol. 1, No. 1, 1995, pp. 1-12, ISSN 0973-9890.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420014-5"

SIRAKHOV, Nikolay Sergeyevich

[Experience in the organization of pulmonary tuberculosis control
in rural localities of Stanislav Province] Dosvid organizatsii
borot'by z tuberkul'ozom lehen' u sil's'kykh mestanostish
Stanislava'koi oblasti. Kyiv, Dergomedvydav URSR, 1957. 123 p.
(MIRA 13:8)

(STANISLAV PROVINCE--TUBERCULOSIS)

BOGAL'SKAYA, A.P.; STRAKHOV, N.S., kand.med.nauk

Experience with the organization of laboratory services in
tuberculosis control institutions in Stanislav Province. Probl.
tub. 37 no.8:11-14 '59. (MIRA 13:6)

1. Iz Stanisloavskogo oblastnogo protivotuberkuleznogo dispansera
(glavnnyy vrach - kand.med.nauk N.S. Stakhov, zav. kliniko-
diagnosticheskoy laboratoriyye A.P. Bogal'skaya) i Ukrainskogo
nauchno-issledovatel'skogo instituta tuberkuleza imeni P.G.
Yanovskogo (dir. - dotsent A.S. Mamolat).
(TUBERCULOSIS hosp. & clinics)

STRAKHOV, N.S.

Improvement in the quality of diagnostic and therapeutic service
for patients with tuberculosis in a rural location (from data of
Stanislav Province). Probl.tub. no.4:6-12 '61. (MIRA 14:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.L. Avicosor)
Stanislavskogo meditsinskogo instituta (dir. - dotsent G.A.
Babenko) i Stanislavskogo oblastnogo protivotuberkuleznogo
dispansera (glavnnyy vrach P.S. Kulakova).
(STANISLAV PROVINCE--TUBERCULOSIS)

Country : USSR

Category: Cultivated Plants Fruit. Berries.

Its Jour: KGBNIOL, No 11, 1958, No 49103

Author : Stralchov, P....

Inst : -

Title : Better Seeds for Apple Stocks in the Central
Kodras.

Orig Pub: Sadvodstvo, vinozogradarstvo i vinodeliye Moldavii,
1957, No 2, 14-56

Abstract: A test made at the 'Tsvetushchaya Moldaviya' nur-
sery sovkhoz has shown that the seeds of the Kretseak,
Sary-Sinap, Rosannin Delyy, Letnyy Shefran and
Pestrets are best for the cultivation of stocks in
the central Kodras of Moldavia in regard to their
vigor of growth, root formation, the output of
two-year old standard seedlings and productivity. ..

Card : P. Kh. Kiklin

PATRAN, V. V., matematik, T. I. RUMYANTSEV, S. V., OZHAKHOV, P. I., POLOTOV, A. T.,
POLYPALEV, V. D., SEL'KIND, L. D., professor, redaktor; KUZNETSOVA,
Gal. Yu., redaktor; TIKAREV, N. A., tekhnicheskiy redaktor

[Selected works on electricity] Izdaniye trudy po elektrichestvu.
Pod red. i s. rukovodstvom L. D. Sel'kina. Marks, Gos. izd-vo
tekhnicheskoy literatury, 1951, 2-ye p. (MLRA 10-4)
(Electricity - Series Works on Electricity)

CHIKHOV, V.G., red.; KALIN, D.I., red.; KOTTEV, N.N., red.;
KUDRIATSEV, A.V., red.; MIKHAYLOV, V.V., red.; NEFIS,
Ya.I., red.; RAKOV, Yu.M., red.; RAFALOVICH, M.P., red.;
STRAKHOV, S.M., red.; STEPANEK, I.Y., tekhn. red.

[In this book are given the answers to the questions: 1. Are there intelligent beings on other planets? 2. What significance has the Kuban-Kainus Irrigation and Water-Supply System for Stavropol? 3. What is travertine? How is it formed and for what purposes is it used?] V etoi knige dany otvety na voprosy: 1. Est' li razumnye sushchestva na drugikh planetakh? 2. Kakoe znachenie imet dlin Stavropol'skaya Kuban-Kalausskaya obvodnitel'no- orositelskaya sistema? 3. Chto takoe travertin, kak on obrazuetse i v chem ego poleznost'? Stavropol', Stavropol'skoe knizhnoe izd-vo, 1960. 32 p. (MIRA 16:11)
(Plurality of worlds) (Kuban- Water supply)
(Travertine)

SPBANKOV, N. V.

Avtomobilizatsiya strany i zadachi Osoaviakhima. [The development of the country's automobile transportation and the tasks of the Society for Promotion of Defense and Aerochemical Construction]. (Za obozreniye, 1946, no. 12, p. 4). DLC: TK504.23

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

STRAKHOV, N.V.

Years of the growth. Za rul. no.11:5-6 N '57. (MIRA 11:1)

1.Predsedatel' soveta TSentral'nogo avtomotokluba SSSR.
(Automobile racing) (Motorcycle racing)

STRAKHOV, N.V.

Further development of automobile and motorcycle sport, Za rul.
17 no.4:7 Ap '59.
(MIRA 12:6)

1. Predsedatel' orgkomiteta TSentral'nogo avtomotokluba, chlen
TSentral'nogo komiteta Dobrovol'nogo obshchestva sodeystviya armii,
aviatsii i flotu SSSR.

(Automobile racing)
(Motorcycle racing)

PENNER, D.I., (Sverdlovsk); STRAKHOV, N.V., (Sverdlovsk)

Experiments with "daylight" lamps. Fiz. v shkole 15 no.5:52-54
S-0 '55. (MLRA 9:1)
(Electric lighting. Fluorescent)

PENNER, D.I.; STRAKHOV, N.V.

Ionizing particle counters. Fiz. v shkole 16 no.6:44-47
N-D '56. (MLRA 9:12)

1. Pedagogicheskiy institut, Sverdlovsk.
(Geiger-Muller counters)

PEN'YER, D.I., (Sverdlovsk); STRAKHOV, N.V., (Sverdlovsk)

Using photographic techniques for fixation of microparticles
in schools. Fiz. v shkole 17 no.1:64-65 Ja-P '57. (MLRA 10:2)

(Photography--Scientific applications)

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CIA-RDP86-00513R001653420014-5"

STRAKHOV, S.N.; FILIPPOVA, Ye.N.

Study of natural synoptic periods marked by fall and spring frosts
in Azerbaijan. Sbor. rab. po sinop. no.3:51-76 '59.
(MIRA 12:11)

1.Upravleniye gidrometeorologicheskoy sluzhby (UOMS) Azerbaydzhanskoy
SSR.
(Azerbaijan--Frost)

STRAKHOV, S.N.

Perforating ulcers of the stomach and duodenum in children.
Khirurgia 35 no.4:129-130 Ap '59. (MIRA 12:8)

1. Iz Oktyabr'skoy rayonnoy bol'nitsy (glavnnyy vrach M.F.
Zemlyanskiy) Lipetskoy oblasti.
(PEPTIC ULCER, in inf. & child
perf. gastric & duodenal (Rus))

STRAKHOV, S.N.

Preoperative oxygen treatment in mitral disease. Grud. khir.
2 no.1:25-29 Ja-F '60. (MIRA 15:3)

1. Iz serdechnogo otdeleniya (zav. - doktor med.nauk S.A. Kolesnikov) Instituta grudnoy khirurgii AMN SSSR (dir. - prof. A.A. Busalov, nauchnyy rukovoditel' - akademik A.N. Bakulev). Adres avtora: Moskva, Leninskiy prosp., d.8, Institut grudnoy khirurgii AMN SSSR.

(OXYGEN THERAPY)
(MITRAL VALVE—SURGERY)

MAKHOV, Sergey Nikolaevich; GOLOVSKAYA, I.S., red.; ZHIEVA, N.K.,
tekhn. red.

[Appendicitis] Appenditsit. Moscow, Medgiz, 1961. 27 p.
(MIRA 15:3)

(APPENDICITIS)

STRAKHOV, S.N.

Study of the functional state of the brain according to electro-
encephalographic data during mitral commissurotomy. Khirurgia
37 no.1:39-45 Ja '61. (MIRA 14:2)

1. Iz Instituta grudnoy khirurgii (nauchnyy rukovoditel' - akad.
A.N. Bakulev, dir. - prof. S.A. Kolesnikov) AMN SSSR.
(MITRAL VALVE-SURGERY) (ELECTROENCEPHALOGRAPHY)

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STRAKHOV, S.N., mladshiy nauchnyy sotrudnik (Moskva)

Appendicitis. Med.sestra 21 no.7:38-42 J1 '62.
(APPENDICITIS)

(MIEA 15:8)

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CIA-RDP86-00513R001653420014-5"

TSUKERMAN, G.I.; STRAKHOV, S.N.; RYZHKOV, Ye.V.

Rare complication of digital mitral commissurotomy. Grud.khir.
no.4:100-101 Jl-Ag '62. (MIRA 15:10)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A.
Kolesnikov, nauchnyy rukovoditel' - akad. A.N.Bakulev) AMN SSSR.
(MITRAL VALVE SURGERY)

STRAKHOV, S.N. (Moskva, Bagovaya ul., d.11, kv.54)

Thymomas. Grud. khir. 3 no.1:112-115 Ja-F '61. (MIRA 16:5)

1. Iz serdechnogo otdeleniya (zav. - prof. S.A.Kolesnikov) Instituta grudnoy khirurgii (dir. - prof. S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR.
(THYMUS GLAND--TUMORS)

VASIL'YEV, V.A.; KIBIS, S.YA.; SARKHOV, S.N.

Some problems of hemodynamic disorders in patients with
chronic constrictive pericarditis. Zdravookhranenie 5 no.5:
39-44 3-0'62.

1. Iz rentgenologicheskogo otdeleniya (zav. - dotsent M.A.
Ivanitskaya) i khirurgicheskogo otdeleniya priobretennykh po-
rokov serdtsa (zav. - prof. S.A.Kolesnikov) Instituta ser-
dechno-sosudistoy khirurgii AMN SSSR (direktor - prof. S.A.
Kolesnikov). Nauchnyy rukovoditel' akademik A.N.Bakulev.
(PERICARDITIS) (BLOOD-CIRCULATIONS, DISORDERS OF)

AMIROV, R.Z.; ZOL'NIKOV, S.M.; IVANOVA, V.I.; STRAKHOV, S.N.

Study of electroencephalographic data during present-day
intubation anesthesia. Vest.khir. no.6:57-61 '62.

(MIRA 15:11)

1. Iz laboratori klinicheskoy fiziologii (zav. - prof. A.G.
Bukhtiyarov), laboratori anestesiologii (zav. - kand.med.nauk
S.M. Zol'nikov) i otdeleniya priobrennykh porokov serdtsa
(zav. - prof. S.A. Kolesnikov) Instituta serdechno-sosudistoy
khirurgii AMN SSSR.
(ELECTROENCEPHALOGRAPHY) (INTRATRACHEAL ANESTHESIA)

KOLESNIKOV, S. A.; STRAKOV, S.M.

Comparative evaluation of two methods of mitral commissurotomy
based on electroencephalographic data. Chirurg. zhurn. 5 no.3:
15-19 May-June '63 (MIRA 17:1)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.
S.A. Kolesnikov, nauch. rukovoditel' - akademik A.N. Bakulev)
AN SSSR. Adres: ul. rovi Markva 7-49, Leninskiy prosp., d.8.
Institut serdechno-sosudistoy khirurgii AMN SSSR.

STRAKHOV, S.V., doktor tekhn.nauk, prof.

Study of the static stability of an a.c. diesel-electric drive.
Trudy MIIT no.149;3-27 '62. (MIRA 16:5)
(Diesel electric power plants) (Differential equations)
(Electric driving)

STRAKHOV, Dr. S. V.

Mbr., Moscow Energetics Inst. in. V. M. Molotov, -c1949-. Cand. Technical Sci. "Review
of B. A. Vvedenskiy and A. G. Arenberg's Book, 'Radio Wave Guides,'" Iz. Ak. Nauk SSSR,
Otdel. Tekh. Nauk, No. 12, 1948; "Simple Method for Obtaining Expressions for the
Electric and Magnetic Vector Fields through Hertz's Magnetic and Electric Vectors," Elek-
trichestvo, No. 2, 1949.

134.1
919. A simple method of obtaining expression for electric and magnetic field vectors by means of magnetic and electric Hertz vectors. S. V. Strelcov. J. Acoust. Soc. Am. 11, 414 (1930) 26 Decades.

The method of integrating Maxwell's equations by the introduction of the magnetic and electric Hertz vectors by retarded potentials is well known from *Ward's wave propagation theory*. It is shown how to describe the field by either an electric or a magnetic Hertz vector of a dipole of the corresponding character, the magnetic or electric moment of which may be an arbitrary function of time. Some possible formal errors in using the method are pointed out.

S. V. STRELCOV

STRAKHOV, S. V., Docent

USSR/Electricity - Education
Operator Calculus

Jan 52

"Concerning V. Yu. Lomonosov's Article "Operator Calculus in Electrical Engineering Education," K. A. Krug, Corr Mem, Acad Sci USSR, Docent S. V. Strakhov, Cand Tech Sci, Prof K. M. Polivanov, Dr Tech Sci

"Elektrichestvo" No 1, pp 66-69

Krug and Strakhov disagree with Lomonosov's convention that operator calculus should not be taught in higher elec engineering schools, emphasizing its importance in the theory of

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USSR/Electricity - Education (Contd) Jan 52

automatic regulation and in solving problems involving transients in circuits with distributing parameters. Polivanov does not say that operator calculus is not necessary in elec engineering, but feels that it has been vastly overrated by many engineers.

201712

STRAKHOV, S.V., dotsent, kandidat tekhnicheskikh nauk

Equations for transient electromechanical processes in the system of
two synchronous machines connected with a transmission line. Trudy
MEI no.14:19-37 '53).
(MLRA 8:7)
(Electric machinery, Synchronous)

STEAKHOV, S. V.

221 11137 621 111379

2

221 11137 621 111379
UDSSR. Method of the coordinate system for calculating transient processes in systems comprising rotating electrical generators, synchronous machines, hydroelectric machines, S. V. STEAKHOV. Elektron i Sistem, 1958, No. 6, 20-26. ~~UDSSR. Elektron i Sistem, 1958, No. 6, 20-26.~~

The article describes a method of calculating transient processes in systems comprising rotating electrical generators, their prime movers with their initial alternators, their prime movers with their transient frequency transmission lines through which the transient frequencies are supplied to their static loads etc. A general statement is made that the most frequent requirement consists in defining the constants of the system elements in relation to the initial coordinates, rates of change of the currents of all the prime movers, and the constants of all the transmission lines and static loads to any steady state connected to the nodes of one of the synchronisms concerned, the choice of which is free in the case of synchronous machines, the choice of which is free in the case of hydroelectric systems, and has to be determined from the electrical system diagram in all other cases. The application of this method is illustrated by the example of a system of 3 synchronous machines (without damper windings) the speed of which is variable, 3 transmission lines and 3 static loads. A method of obtaining the required equations for systems comprising any number of synchronous machines, prime movers and loads and its use for determining the initial values and loads and its use for determining the initial values of currents, voltages and instantaneous values of currents, voltages and

torques during any transient process is presented, a special case being the "symmetrical" transient process at constant alternator speed. S. V. STEAKHOV

NEFEDOV, Anatoliy Vladimirovich; STRAKHOV, Sergey Vladimirovich;
ZHUKHOVITSKIY, B.Ya., redaktor; SAVURTSOV, I.M., tekhnicheskiy redaktor.

[Principles of electrical engineering] Osnovy elektrotekhniki.
v trekh chastiakh. Moskva, Gos.energ.izd-vo Pt.2 [Circuits
with lumped and distributed parameters] Tsipri s soderzhat-
chennymi i raspredelennymi parametrami. 1955. 213 p. (MLRA 8:11)
(Electric circuits)

AID P - 2355

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 19/30

Authors : Zeveke, G. V., Kand. of Tech. Sci., Dotsent
Ionkin, P. A., Kand. of Tech. Sci., Dotsent
Netushil, A. V., Doc. of Tech. Sci., Prof.
Strakhov, S. V., Kand. of Tech. Sci., Dotsent, Moscow
Power Engineering Institute im Molotov; Darevskiy, A.I.,
Kand. of Tech. Sci., Dotsent, All-Union Correspondence
Polytechnical Institute; Lomonosov, V. Yu., Doc. of Tech.
Sci., Prof. Central Scientific Research Institute of the
Ministry of Electric Power Stations; Neyman, L. R., Prof.
Corr. Mem. of Academy of Sciences, USSR Leningrad Poly-
technical Institute im. Kalinin

Title : Concerning a textbook on the theory of electrical engi-
neering for a university course (Discussion) {Same
Journal, Nos. 6, 7, 12, 1953; Nos. 3, 4, 1954}

Periodical : Elektrichestvo, 5, 69-73, My 1955

Abstract : The discussion concerned the coordination of the course
in the theoretical bases of electrical engineering with

SOV/112-57-6-12165

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 6,
pp 67-68 (USSR)

AUTHOR: Strakhov, S. V.

TITLE: Short-Circuit Currents and Voltages Calculation in a Network Comprising
a Generator and an Infinite-Power Bus with an Allowance for Generator
Amortisseur and Hunting (Raschet tokov i napryazheniy korotkogo zamykaniya
v skheme generator — shiny beskonechnoy moshchnosti s uchetom kachaniy i
uspokoitel'nykh obmotok generatora)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 18, pp 56-69

ABSTRACT: Results are presented of a numerical calculation of dynamic stability
made by the Longli method. The Longli method, at variance with the method
of rectified characteristics, allows for variations of current and voltage phases
in the course of a short circuit and also for the influence of generator hunting
upon the currents and voltages, but it does not allow for free subtransient
phenomena in the synchronous machinery during the initial 0.2-0.25 seconds of
the short circuit. A network was considered in which, between the power

Card 1/2

STRAKHOV, S.V., kandidat tekhnicheskikh nauk, dotsent.

Transient processes in the arrangement synchronous generator-network - two induction motors with their rotors turning at a constant speed. Trudy MEI no.18:83-102 '56. (MIRA 10:1)

1. Kafedra teoreticheskikh osnov elektrotehniki.
(Electric circuits)

STURKHEA B.

1952. THE EQUATIONS OF TRANSLATION IN TERMS OF A
SYNTHETIC POLYMER PERTINENT TO THE CROSSLINKING.
BY R. L. BROWN AND J. W. DODD,
THE GOODYEAR TIRE & RUBBER CO., CLEVELAND, OHIO.
RECEIVED JULY 10, 1952

ABSTRACT. The equations of translation in terms of a synthetic polymer
are derived for the case of a crosslinked polymer. The equations are
based on the assumption that the angular velocity of the polymer
is equal to the angular velocity of the rotating cylinder, and that
the solution is in a state of equilibrium.

INTRODUCTION. The equations of translation for the case of a solid
cylinder rotating about its axis have been derived by various
authors. The equations of translation for the case of a liquid cylinder
have also been derived by various authors. The equations of transla-

Monroe Power Generating Plant in V.M. Molitor.

KUZNETSOV, Mikhail Ivanovich; STRAKHOV, S.V., kandidat tekhnicheskikh nauk,
redaktor; GAVRILOV, V.P., redaktor; OSTRIROV, N.S., tekhnicheskiy
redaktor

[Principles of electric engineering] Osnovy elektrotehniki. Iзд.
5-е, перер. Под ред. С.В.Страхова. Москва, Выс. учен.-
педагог. изд-во Трудрезервистат, 1957. 422 п. (МИРА 10:))
(Electric engineering)

AUTHOR
TITLE

103-7 2/29
V. V. Kostylev et al., "Osnovy issledovaniya dinamicheskikh transiente v elektricheskikh ustroystvakh," (Principles of the investigation of dynamic transients in electrical devices), Izdatelstvo radio i svyazi SSSR, Moscow, 1970. (Russian)
ISBN 5-01-000300-1. pp. 4 - 10 (U.S.S.R.)

PARTICULAR
ABSTRACT

Principles of the investigation of dynamic transients in electrical devices, and 2.) Mathematical methods for their solution. The latter are divided into 1.) one which uses physical equations for the currents in the windings and generators. In those cases where the initial conditions of the equations have been changed it is useful to use numerical methods. The most variety of this method is the use of a number of programs which are designed for the construction of a system of differential equations. In this paper the author assumes that the differential equations are described. The author assumes that the differential equations for the synchronous alternator, the asynchronous motor, the rectifier and the elements of the circuit are known. The most rational way of solving the system of equations is chosen and the method for the numerical solution of the system of equations is given by means of a diagram. The sector of the magnetic field and the primary winding of the transformer, the sector of the secondary winding and the primary coil of the generating cell are investigated. When the primary coil of the generating cell is investigated, the equations become more complex. The primary and secondary components represent a special

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1. **CONTENTS**
The report consists of two parts. Part I contains a detailed treatment of
the theory of the magnetic field in the presence of a rotating system.

Part II contains a detailed treatment of the theory of the magnetic field in
the presence of a rotating system. The total magnetic field is determined
by solving the equations of motion of the electrical circuit. The solution
is obtained by solving the equations of motion of the system. (With 3 illustrations.)

ASSUMPTION

The magnetic field is assumed to be constant.

PRESENTED BY

Dr. J. C. R. Hunt

SUBMITTED

Dr. J. C. R. Hunt

AVAILABLE

Dr. J. C. R. Hunt

Card 1/1

Strakhov, S. V. (Moscow)

24-9-1/33

AUTHOR: Strakhov, S. V. (Moscow)

TITLE: On transforming the equations on the transient electro-mechanical processes of a salient pole synchronous machine.
(*o preobrazovani uравнений переходных электромеханических процессов явнополюсной синхронной машины*)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.9, pp. 3-10 (USSR)

ABSTRACT: The transformations of R. H. Park (Ref.1) can be interpreted from the geometrical point of view as relating the equations of the synchronous machine to coordinate axes which rotate with the same speed as the rotor. The question arises whether the periodic coefficients cannot be excluded from the equations of a synchronous machine if these are related to axes rotating with a speed differing from that of the rotor speed. In this paper one of the conditions, which is usually considered fulfilled in the case of an idealised synchronous machine, is dispensed with and for this case the equations of the transient electro-mechanical processes of a salient pole synchronous machine are derived in matrix form, whereby the formula of the reactive component of the electromagnetic moment of the machine is derived for the

Card 1/3

On transforming the equations on the transient electro-mechanical processes of a salient pole synchronous machine. 24-9-1/33

first time. Furthermore, it is proved that for this case application of the transformations of Park are not a sufficient condition for excluding the periodic coefficients from the equations of the stator flux couplings and of the reactive component of the electromagnetic moment of the synchronous machine. Also, it is shown that, in contrast to work previously published by Grusov, L. N. (Ref.2) and the author of this paper (Refs. 3 and 4), in this case the equations for the zero components of the currents, voltages and flux couplings do not represent a separate system which can be solved independently of the equations pertaining to longitudinal and transverse components. Therefore, the view, generally expressed in literature, that the transformation of the coordinates is equivalent to a substitution of all the circuits or a part by transformed circuits rotating together with the selected coordinate axes, cannot be considered correct. It is proved that, in the general case, for excluding periodic coefficients from the starting equations of a salient pole synchronous machine, it is not sufficient to rotate the coordinate axis with the speed of the rotor.

Card 2/3

STRAKHOV, S. V.

611 313.32 : 841.3.018.3

1957. ON THE INFLUENCE OF SECOND HARMONIC IN THE
ANALYSIS OF INDUCTANCE AND MUTUAL INDUCTANCE OF THE
STATOR ON THE STRUCTURE OF THE EQUATION OF THE
TRANSIENT PROCESS OF SYNCHRONOUS MACHINES.

S.V. Strakhov,
Text. Akad. Nauk BSSR, Vol. 113, No. 1, 58-61 (1957). In Russian.

It is well known that equations for the transient process in
salient-pole synchronous machines when written in phase coordinates
are ill-suited for analytical solution. It is shown that in the general
case the device due to Park (Trans Amer. Inst. Elect. Engrs., Vol. 48,
No. 3, 715-30, July, 1929), of allowing the coordinate axes to rotate
at rotor speed is insufficient to eliminate angular terms.

B.C.Dunn

Moscow Power Engineering Inst. V.M. Mototov

AUTHOR:

Strakhov, S. V.

20-5-20/54

TITLE:

On the Transformation of the Equations of the
Transition Processes of an r,L,C-Circuit to a Rotating
System of Coordinates (Opreobrazovani uravneniy
perekhodnykh protsessov tsepi r, L, C k vrashchayushchey sva
sisteme koordinat).

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 5,
pp. 922-925 (USSR)

ABSTRACT:

When computing electromechanical transition processes in
an electrical system which, besides rotating machines
(synchronous- and asynchronous machines), also contains
some static (non-rotating) elements (i. e. transmission
lines, loads, compensation reactors, longitudinal
capacities, etc.), it is advisable not to use the
equations written down in phase-coordinates for all
these elements. Accordingly, the equations for all
synchronous machines are referred to such coordinate
axes as are connected rigidly with the rotors. This is
necessary for the elimination of the periodic coefficients
from the equations originally written down in phase co-

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20-5-20/54

On the Transformation of the Equations of the Transition
Processes of an r, L, C-Circuit to a Rotating System of
Coordinates

ordinates. The equations of all static elements must be referred to a rotating system of coordinates. This system of coordinates has to be chosen as rational as possible, viz. in such a manner that the totality of the non-linear equations of the entire circuit is as simple as possible. This requires the derivation of the equations of the periodical processes in a compensated line which connects two generator stations. Here this line, i.e. r, L-C circuit, can be looked upon as a special case of the static element of the system. These equations are then referred to such rotating coordinate axes as are connected with a third station. The matrix equations of the first part section of the circuit are written down here in phase coordinates and the transformation matrix is also given. The process of the rather voluminous computations is then described step by step. The equations obtained here are needed for the determination of the

CARD 2/3

AUTHOR:

Strakhov, S. V.

20-3-16/52

TITLE:

Description of Electromechanical Transition Processes of Asynchronous Machines by Means of Equations Containing No Periodic Coefficients (Opisanie perekhodnykh elektromekhanicheskikh protsessov asinkhronnykh mashin posredstvom uravneniy bez periodicheskikh koefitsientov)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 415 - 418 (USSR)

ABSTRACT:

Various processes for the replacement of phase coordinates supply expressions for branching-off current lines and for the electromagnetic moment containing no periodic coefficients. This renders the entire system of equations of electromagnetic transition processes of asynchronous machines considerably more simple. When deriving these equations such pre-suppositions are made as are usual in the case of such investigations and the results thus found do not deviate to any considerable extent from experimental data. The method of the transformations suggested here can be simplified considerably, so that no complex numbers are used. For the asynchronous machine the author here uses the transformations of Park or the system of coordinates d_k , q_k , θ . This coordinate system is here denoted by d_k , q_k , θ , because it rotates with the random velocity ω_r . The rotor of the machine revolves with the velocity ω_0 .

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20-3-16/52

Description of Electromechanical Transition Processes of Asynchronous
Machines by Means of Equations Containing No Periodic Coefficients

The asynchronous machine to be investigated is connected to a network with the phase voltages u_a , u_b , u_c , and also the voltages at the rings of the rotor are given. A diagram illustrates the corresponding amperages of stator and rotor as well as their directions with respect to the like terminals of the windings. The equations for Ohm's law and for branchings-off of current are here transformed separately for the stator and for the rotor in matrix form. The computation is followed step by step, 5 equations with 5 unknown quantities are obtained, the solution of which makes the computation of any electromagnetic transition processes in an asynchronous machine possible. There are 3 figures, and 6 references, 5 of which are Slavic.

ASSOCIATION: Moscow Power Institute
(Moskovskiy energeticheskiy institut)

PRESENTED: May 6, 1957, by V. S. Kulebakin, Academician

SUBMITTED: May 4, 1957

AVAILABLE: Library of Congress

Card 2/2

STRANOV, S. V. Doc Tech Sci -- (diss) "Transition processes in electric circuits containing alternating-current machines." Mos, 1958. 44 pp (Min of Higher Education USSR. Mos Order of Lenin Power Engineering Inst), 100 copies
Bibliography: p. 43-44 (16 titles) (KL, 14-53, 112)

- 44 -

e(5)

AUTHOR:

Strakhov, Sergey Vladimirovich, SOV/161-58-2-3/30
Candidate of Technical Sciences, Docent at the Chair of
Theoretical Principles of Electrical Engineering of the Moscow
Power Engineering Institute

TITLE:

Equations of the Electromechanical Transients of Induction
Machines (Uravneniya perekhodnykh elektromekhanicheskikh
protsessov asinkhronnoy mashiny)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Elektromekhanika i
avtomatika, 1958, Nr 2, pp 24 - 33 (USSR)

ABSTRACT:

The method of transforming the equations of electromechanical
transients of induction machines is investigated. In the
author's opinion this method is the simplest. The transfor-
mation according to Park or the system of coordinates d_k , q_k , θ
is used. As far as the system of coordinates rotates at any
angular velocity ω_k with the rotor rotating at an angular
velocity ω , the system of coordinates is designated by d_k , q_k ,
and θ . This transformation is employed not only for induction
machines but also for synchronous machines and for systems

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Equations of the Electromechanical Transients of
Induction Machines

SC7/161-58-2-3/30

elements that are fixed in the space. In this way, a uniformity in the transformation of the equations of all system elements is achieved. The transformation of Ohm's law equations and of the interlinkage is separately done for stator and rotor, by using the matrix form. The equations of the electromagnetic moment are then transformed. The advantage of this method: one transformation suffices and there is no need of using complex quantities. There are 3 figures and 8 references, 5 of which are Soviet.

ASSOCIATION: Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta (Chair for Electrical Machines of the Moscow Power Engineering Institute)

SUBMITTED: December 30, 1957

Card 2/2

STRAKHOV, S.V., dotsent, kand.tekhn.nauk

Equations of transient processes in static elements of the net
transferred to the rotating system of coordinates. Trudy MEI
no.27:88-104 '58. (MIRA 13:4)
(Electric networks) (Transients (Electricity))

20-110-6-25/26

AUTHOR: Strakhov S V

TITLE: Equations for the Type of Steady Asynchronous Operation of Electric Systems (Uravneniya reshim ustoychivusheshegoja asinkhronnogo khoda elektricheskikh sistem)

PERIODICAL: Doklady Akademii Nauk SSSR 1958, Vol. 110, Nr 6,
pp. 1145 - 1156 ("Soviet Physics Doklady")

ABSTRACT: Because of the one or the other deficiency, as consequence of a short circuit or of the loss of the stimulation, one or several synchronous machines can pass over from synchronism to a steady asynchronous operation. For the investigation of this operation it must be known which system of differential equations is competent for this, and in particular if among them there are also differential equations with periodical coefficients. In this case the differential system of the differential equations practically is solved by computation machines with continuous or discreet operation. But it is just as important to know on what conditions all differential equations of the examined system have constant coefficients only, for in this case their solutions easily are obtained by the operator method or by the method of the Fourier integral. The author investigates a

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Equations for the Type of Steady State Operation of Discrete Systems
of Electric Systems

system consisting of 2 synchronous generators and an asynchronous motor. The equations for the operation interesting of the synchronous operation in the case steady are most naturally obtained in a special case of the equations of electro-mechanical transients procedures. The forms of the equations and the process of the computation are discussed. 20 linear equations with 20 unknowns are obtained. Of these 20 equations 4 differential equations contain periodical coefficients and 4 equations are algebraic. The ordinary critical number of the system of the differential equations is equal to 16. Various variables can be eliminated by very simple ways. The system obtained here is well suitable for the solution by means of computation machines for continuous operation of the type adapted for this and by means of any computation machines for discrete operation. The equations for the steady operation in systems with 2 or more synchronous machines always will contain periodical coefficients. Their solution, i.e., their terms for the amplitudes and voltages are represented by an infinite series of harmonics. There are 2 figures and 3 references. 5 of which

Card 2/5

STRAKHOV, S.V.

Generalization of the equation of transient electromechanical processes of a salient-pole synchronous machine. Nauch.dokl.vys.shkoly; elektromekh. i avtom. no.1:39-51 '59. (MIRA 12:11)

1. Rekomendovana kafedroy teoreticheskikh osnov elektrotehniki Moskovskogo energeticheskogo instituta.
(Electric machinery, Synchronous)

STRAKHOV, Sergey Vladimirovich, doktor tekhn. nauk, (Moskva, z-250,
Krasnokazarmennaya ulitsa, dom 14); YEZHIKOV, V.V., red.;
BORNIKOV, N.I., tekhn. red.

[Transient processes in electric networks operating with
a.c. machinery] Perekhodnye protsessy v elektricheskikh
tseplinkh, soderzhashchikh mashiny perevannogo toka.
Moskva, Gos. energ. izd-vo, 1960. 246 p. (MIRA 14:5)

1. Vsesoyuznyy zaochnyy energeticheskiy institut (for
Strakhov)
(Electric networks) (Electric machinery--Alternating current)

KUZNETSOV, Mikhail Ivanovich; STRAKHOV, S.V., doktor tekhn.nauk, red.;
ZHAMENSKIY, A.A., red.; RAKOV, S.I., tekhn.red.

[Fundamentals of electric engineering] Osnovy elektrotehniki.
Izd.7., ispr. i dop. Pod red. S.V.Strakhova. Moskva, Vses.
uchebno-pedagog.izd-vo Proftekhnisdat, 1960. 558 p. (MIRA 13:5)

(Electric engineering)

STRAKHOV, S.V., doktor tekhn.nauk

Across Tziber Pass. Zdorov's 7 no. 2:6 Ag '61. (MIRA 14:9)
(CAUCASUS, NORTHERN MOUNTAINEERING)

KUZNETSOV, Mikhail Ivanovich; STRAKHOV, S.V., doktor tekhn.nauk, red.;
ZNAMENSKIY, A.A., red.; TOKER, A.M., tekhn. red.

[Fundamentals of electrical engineering]Osnovy elektrotehniki.
8. izd., stereotipnoe. Pod red. S.V.Strakhova. Moskva, Prof-
tekhizdat, 1962. 559 p. (MIRA 16:2)
(Electric engineering)

S/105/62/000/009/001/001
E140/E435

AUTHORS: Venikov, V.A., Doctor of Technical Sciences,
Yezhkov, V.V., Engineer, Strakhov, S.V., Doctor of
Technical Sciences, Professor (Moscow)

TITLE: The calculation of electromechanical transients in
electric power systems using digital computers

PERIODICAL: Elektrichestvo, no.9, 1962, 7-14

TEXT: The problem treated by the authors is the calculation of
dynamic stability, short-circuit current variation and phase
swinging, asynchronous operation related processes, using digital
computers. The use of digital computers permits a number of
factors, which had to be neglected in manual calculations, to be
taken into account. Such factors are the forces due to
aperiodic components of the stator currents and the periodic
component of rotor current, power losses in the rotor and stator
resistances. The work was carried out on a digital computer
"of the BESM (BESM) type", and compared with the results
obtained on an analogue model of the same system. The basic
element studied in the present work was a single machine connected

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S/105/62/000/009/001/001

The calculation of electromechanical .. E140/E435

to constant potential bushars. The mathematical starting point is a system of nonlinear integro-differential equations. Periodic components are eliminated by transformation to a coordinate system rotating with the machine under study. Several possibilities exist for the treatment of systems of several machines. Each machine can have its own local set of rotating coordinates, while the lines connecting them can either be related to one of the terminal sets of rotating coordinates or to a further fixed set. In establishing the equations, the following simplifying assumptions were made:

1. The magnetic fields of each winding are distributed sinusoidally along the circular air gap, to the neglect of higher space harmonics.
 2. Reluctance variations are neglected.
 3. Hysteresis, saturation and eddy currents (steel losses) are neglected.
 4. The expressions for the winding inductances are simplified by series expansion and retention of only the first or first two terms.
 5. The field and damping windings are considered to be coaxial.
- With these assumptions and restrictions a system of two generators connected by a

Card 2/3

ZEVEKE, Georgiy Vasil'yevich, prof.; IONKIN, Petr Afanas'yevich,
prof.; NETUSHIL, Anatoliy Vladimirovich, prof.;
STRAKHOV, Sergey Vladimirovich, prof.; LAVROV, V.V., dots.,
retsenszent; ZLUKHOVITSKIY, B.Ya., dots., red.; BORUNOV, N.I.,
tekhn. red.

[Principles of the network theory] Osnovy teorii tspelei. [By]
G.V.Zeveke i dr. Izd.2., perer. Moskva, Gosenergoizdat, 1963.
(MIRA 17:1)
440 p.

KUZNETSOV, Mikhail Ieronimien; STRAKHOV, S.V., doktor tekhn. nauk,
red.; ZNAMENSKIY, A.A., red.

[Principles of electrical engineering] Osnovy elektrrotekhniki. 9. izd., ispr. Moskva, Vysshiaia shkola, 1964. 558 p.
(MIRA 17:6)

STRAKHOV, S.V., doktor tekhn. nauk, prof.

Dynamics of an automated a.c. diesel-electric drive. Trudy
(MIRA 17:10)
MIIT no.188:4-22 '64.

CHIEF, S.C., SECRETARIAL, 1940, 12/12.

Project 101: "An approach for developing the principles of magnetic levitation." (Project 101: "The theoretical principles of electrical levitation." (Project 101: "The
electrostatic levitation principle." (Project 101: "The

.. Moscow Polytechnic Institute (Institute of Technology).

ZEVFKE, Georgiy Vasil'yevich, prof.; IONKIN, Petr Afanas'yevich,
prof.; NECHMIL, Anatoliy Vladimirovich, prof.; STRAMHOV,
Sergey Vladimirovich, prof.; ZHUKHOVITSKIY, B.Ya., dots.,
red.

[Fundamentals of network theory] Osnovy teorii tsselei. [By]
G.V.Zevfke i dr. Izd.3., Ispr. Moskva, Energetika, 1965.
(MIRA 18:5)
444 p.

STRAKHOV, Timofiy Danilovich

(DECEASED)

1963/2

c' 1960

HOTANY

see ILC

STRAKHOV, V.

The Krasnoyarsk harbor today. Rech. transp. 22 no.11:22 N '63.
(MIRA 16:12)

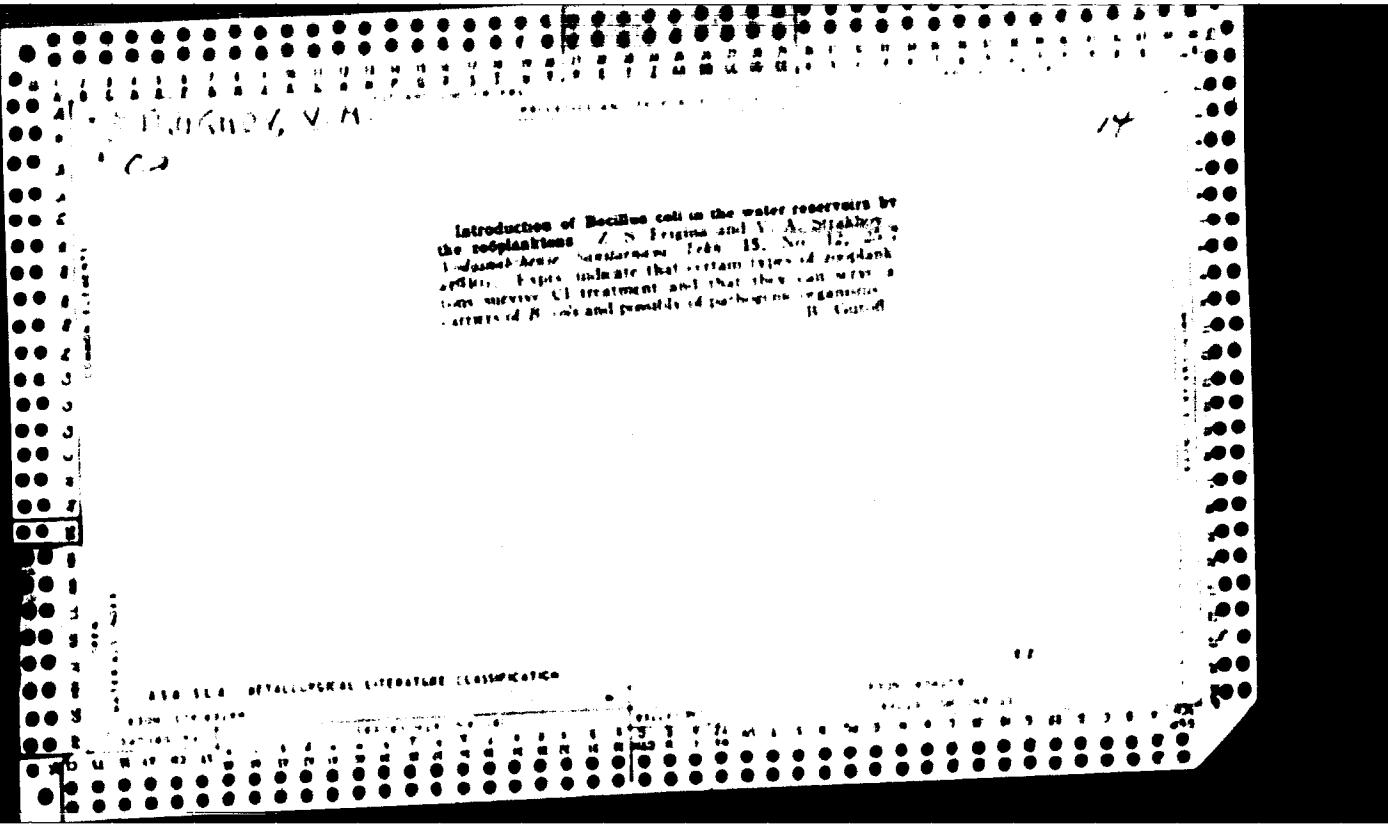
1. Nachal'nik Krasnoyarskogo portu.

"APPROVED FOR RELEASE: 08/26/2000

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APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420014-5"



STRAKHOV, Vladimir Arsen'yevich; NUGENBAUM, Lev Mikhaylovich; GYUL'RADAMOV,
S.B., spets. red.; KONOVOCHKINA, Z.S., red.; FOMALINA, Ye.A.,
tekhn. red.

[Electric fish screen of the E.ZU-1 type] Elektricheskii zagradsitel'
dlia ryb tipa E.ZU-1. Moskva, Gos.nauchno-issl. in-t ozernogo i
rechnogo rybnogo khoz., 1959. 37 p. (MIRA L.:12)
(Fish culture)

STRAKHOV, V.A.

Khvalynian terraces in the region of Lake Adzhikabul. Izv. AN Azerb.
SSR. Ser. geol.-geog. nauk no.1:13-27 '60. (MIRA 13:11)
(Adzhikabul region--Geology, Structural)

STRANHOV, V.A.

Tectonic development of the Kura Lowland in the Lower Paleogene.
Izv. vys. ucheb. zav.; geol. i razv. 6 no.2:30-45 P '63,
(MIRA 16:6)

1. Moskovskiy institut inzhenerov transporta.
(Kura Lowland—Geology, Structural)

STRAKHOV, V.A.

Geotectonic development of the Kura Lowland in the Paleogene and
Miocene. Biul. NOIP Otd.geol. 37 no.1:148-149 Ja-F '62.
(MIRA 15:2)

(Kura Lowland--Geology, Structural)

STRAKOV, V. A.

Tectonic development of the Kure lowland in the period of
the accumulation of the Maikop series. Izv. vys. ucheb.
zav., geol i razv. 6 no.9(17-28) p.163. (MIR 17.16)

1. Moskovskiy institut inzhenerov zhelezodorozhnoy transporta.

STRAKH(V, V. G. (Aspirant)

"Oxygen in Mild Bessemer Steel." Cand Tech Sci, Moscow Order of the Labor Red Banner Steel Inst imeni I. V. Stalin, 16 Dec 54. (VM, 6 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

SOV/130-59-1-8/21
AUTHORS: Shobin S.Ya., Kostylev Yu.A., Povorozhnik Yu.G.,
Kir'yukhin Yu.I., Siret'kov V.O., Sviridene F.F.,
Bul'shik N.V., and Al'tsov A.U.
TITLE: Quality of a Rail-Steel Ingot weighing 9.75 Tonnes
(Kachestvo slitina rail'sevey stali vesom 9.75 t)
PERIODICAL: Metallurg, 1959, Nr 1, p 19 (SSSR)
ABSTRACT: At the "Asevtal'" works rail-steel ingot weight has been increased from 6.6 to 9.75 tonnes to increase casting-pit capacity and improve the utilization of rolling mill capacity. The authors give a brief description of the results of comparative investigations of large and small ingots. The quality was evaluated from sulphur prints of longitudinal ingot sections, from the macro-structure (with deep etching) of transverse stripe, differences in the etching of samples from different zones of the ingot and distribution of segregated impurities and non-metallic inclusions in the ingot. Among the conclusions drawn are that the two ingot types are equal in physical,

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structural and chemical heterogeneity, the non-metallic inclusions in the large ingot do not exceed those in a sound 6.0-tonne rail-steel ingot; the amount of non-metallic inclusions, which greatly affect the mechanical properties, can be reduced by careful preparation of runner and ladle.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov metallurgical institute) and the "Asevtal'" works

Card 2/2

SKOBLO, S.Ya.; KAZACHKOV, Ye.A.; STRAKHOV, V.G.

Use of transparent, fusible melts for modeling the ingot solidification process. Izv. vys. ucheb. zav.; chern. met. no.1:41-46 '60.
(MIRA 13:1)

1.Zhdanovskiy metallurgicheskiy institut.
(Steel ingots--Models) (Solidification)

3/133/61/000/002/002/014
A054/A033

AUTHORS: Skoblo, S.Ya., Candidate of Technical Sciences, Strakhov, V.G.,
Candidate of Technical Sciences, Kiryushkin, Yu.I., Candidate of
Technical Sciences, Chernyshev, I.S., Engineer, Oleshkevich, T.I.,
Engineer

TITLE: Heat Insulation of the Nozzle Metal of 8-15 Ton Slabs

PERIODICAL: Stal', 1961, No. 2, pp. 119-123

TEXT: The metal losses in the riser can only be reduced by improving the thermal conditions of the nozzle. This is possible by improving the heat insulation and the thermal activity of lunkerites used. When studying this problem at the zavod im. Il'icha (Plant im Il'ich) the following kinds of lunkerites were used: (in %) ✓

	45%-ferrosilicium	Coke Breeze	Chamotte	Bauxite
L1 (L1)	-	45	55	-
L2 (L2)	30	25	30	15

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The CT.3cm (St.3 sp) type slabs investigated for this purpose were cast according to the conventional technology, by scattering 1.8-2.0 kg/ton lunkerite on the surface. Two types of ingot molds were used: conventional (ЛП8-11, ЛП11-15 - LP8-11, LP11-15) and semi-hammered type (ЛП8-11м, ЛП11-15п - LP8-11p, LP11-15p) for 8-15 ton ingots, with changeable bottom. Steel was poured through an intermittent device with two spouts, 28 mm in diameter, at a distance of 700 mm from each other. The nozzles were lined with chamotte bricks. On account of the considerable thickness of the lining (115-155 mm) the risers were filled with 20-19% of the slab metal. Since the heat losses depend on the surface and the temperature of the various layers of the nozzle wall, their temperature was registered by means of several chromel-alumel thermocouples (Fig.2) and with ЭПП-09 (EPP-09) electronic potentiometers. In the thermal calculations the formula for flat walls was used assuming a linear heat distribution in the thickness of every lining layer. The amount of heat accumulating on 1 m² of a homogenous layer of the lining was determined by

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$$Q_1 = \sum q_i \quad (1)$$

and

$$q_i = b_i \gamma_i c_i (t_i \text{ aver} - t_i \text{ init}) \quad (2)$$

[Abstracter's note: Subscript aver is the translation of the Russian subscript ср = srednyy (srednyy) and subscript init is the translation of нач = nachal'nyy (nachal'nyy)]. In formula (1) : Q_1 = amount of heat accumulated on 1 m^2 of the nozzle wall, in cal/ m^2 ; q_i = idem, for 1 m^2 of a homogeneous layer of the wall, b_i , γ_i , c_i = width (m), volumetric weight (kg/cu m) and heat capacity (cal/kg $^{\circ}\text{C}$) of the homogeneous layer; $t_i \text{ init}$ and $t_i \text{ aver}$ = the corresponding initial and average temperature of the layer, in $^{\circ}\text{C}$. The heat losses caused by radiation and convection on 1 m^2 of the external nozzle surface were calculated from the expression:

$$Q_2 = \alpha(t_{s, \text{aver}} - t) \quad (3)$$

where Q_2 = amount of heat released by 1 m^2 of the external nozzle surface during τ time, in cal/ m^2 ; α = the coefficient of heat loss of this surface, in cal/ $\text{m}^2 \text{ h}^{\circ}\text{C}$; [Abstracter's note: Subscript s, aver (surface average is the

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translation of the Russian it. $\varphi = \frac{Q_2}{\rho C_p t}$ (where φ is the coefficient of heat transfer, Q_2 is the heat loss, ρ is the density of the metal, C_p is the specific heat capacity, t is time for which Q_2 is determined, in hours). It was established that maximum heat losses arose when the dozzle was insulated in the conventional manner, with a high heat capacity. However, these losses are not considerable, about 13-20% of the total losses. The effect of the improved heat conditions of the dozzle on the duration of metal solidification was also studied (by sounding and extrapolating the results for the entire height of the ingot). It was found that the crystallization depends not so much on the weight of the ingot, but rather on the type of mold used. To make a definite assessment of the effect of heat conditions of the dozzle, 237 ingots (8-15 t) were cast from St.3 steel, with a smaller riser (16% of the nominal ingot weight). It was found that this decrease of the riser did not result in an increase of slabs showing laminations at the top. This can be explained by the satisfactory localization of shrinkage holes in this part of the ingot. The service life of the chamotte layer could be increased about 3 times, by straightening out the curves of its side surfaces. Further improvement in

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